



STATE OF UTAH  
DEPARTMENT OF HEALTH

NORMAN H. BANGERTE, GOVERNOR

SUZANNE DANDOO, M.D., M.P.H., EXECUTIVE DIRECTOR

File Act/049/009

June 13, 1986  
533-6146

Glenn Mellor  
Sunshine Mining Company  
P. O. Box 250  
Eureka, Utah 84628

Re: Trixie Pond Dikes

Dear Mr. Mellor:

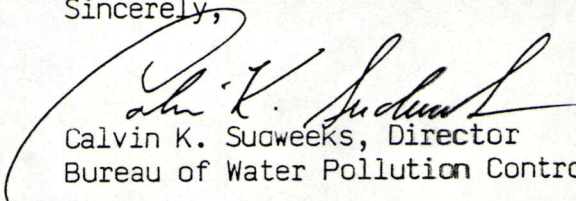
We have reviewed the plans and information submitted for the Trixie Mine Tailings pond dikes A, B and C. Since we have not received information on liner material of a satisfactory low permeability, final pond approval is not possible at this time. We also request information on the method of lime addition to neutralize the acid forming potential. The May 12 analysis indicates 10 tons of lime is needed for each 1000 tons of tailings.

However, at your request we have reviewed figure 6 and the proposed dike construction information submitted December 17, 1985 and March 25, 1986. As a result of our review, it has been determined that these three pond dikes basically conform with the State Wastewater Disposal Regulations. However, a construction permit cannot be issued until the adequacy of a pond liner material is demonstrated. In addition, at such time as a construction permit is issued for the ponds the following additional requirements will apply:

1. Compaction testing meeting requirements of ASTM D2922 or equivalent methods must be performed by a qualified soils test consultant.
2. Representative density tests shall demonstrate at least 95% compaction, and be performed at least twice per lift for the 1st foot of rise and at least once per foot of rise thereafter.

We will await your submittal documenting adequacy of a pond liner material before proceeding with our review.

Sincerely,

  
Calvin K. Sudweeks, Director  
Bureau of Water Pollution Control

SRM:pa  
cc: City/County Health Department  
Oil, Gas, and Mining  
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KENNETH L. ALKEMA, DIRECTOR • DIVISION OF ENVIRONMENTAL HEALTH